

Amendments to the Specification:

Please amend the paragraph starting at page 1, line 11, as follows:

-- ~~International patent publication WO 99/52004 United States Patent 6,707,616~~ discloses catadioptric optic projection objectives which include a plurality of aspheric lens surfaces. For example, the projection objective shown in FIG. 4 includes 12 aspheric lens surfaces for 15 lenses. The manufacturing costs of aspheric lens surfaces with the accuracy required in microlithography are very high. Accordingly, these objectives are of little interest in the marketplace because of the many required aspheric lens surfaces. --

Please amend the paragraph starting at page 1, line 19, as follows:

-- ~~European patent publication 0 322 201 United States Patent 4,875,380~~ discloses an optical projection system especially for photolithography. The projection objective known from this publication includes five lens groups. The first, second, third and fifth lens groups each have only one lens. In part, the lenses are provided with aspheric lens surfaces. An aspheric object end mounted lens surface of the fifth lens group follows an aspheric lens surface mounted in the fourth lens group at the image end. --

Please amend the paragraph starting at page 32, line 1, as follows: --

TABLE 5

LENSES	RADII	THICKNESSES	GLASSES	REFRACTIVE INDEX		
				AT 193.304nm	1/2	FREE DIAMETER
0	infinite	32.000000000	L710	0.99998200	54.410	
	infinite	0.700000000	L710	0.99998200	61.800	
L501	1062.826934956AS	17.734965551	SIO2	1.56028895	62.680	
	-280.649155373	9.921059017	HE	0.99971200	63.358	
L502	-198.612797944	9.733545477	SIO2	1.56028895	63.454	
	-157.546275141	15.417407860	HE	0.99971200	64.281	
L503	-400.277413338	11.803054495	SIO2	1.56028895	63.163	
	-182.515287485	19.059582585	HE	0.99971200	63.316	
L504	-86.486413985	9.000000000	SIO2	1.56028895	62.723	
	-79.976798205AS	3.314115561	HE	0.99971200	64.356	
L505	-102.262183494AS	6.000000000	SIO2	1.56028895	61.260	
	-275.242312561	7.844485351	HE	0.99971200	62.494	
L506	-191.274205909	6.000000000	SIO2	1.56028895	62.450	
	180.723494008	40.175681177	HE	0.99971200	65.811	
L507	-108.539011643	6.000000000	SIO2	1.56028895	67.752	
	10000.000000000AS	23.009626916	HE	0.99971200	86.379	
L508	-481.040730284	35.657298256	SIO2	1.56028895	100.931	
	-165.828518942	0.700000000	HE	0.99971200	106.719	
L509	-5243.952853546AS	59.233771719	SIO2	1.56028895	134.666	
	-218.541408733	2.123657562	HE	0.99971200	139.441	
L510	-402.136827778	25.000000000	SIO2	1.56028895	145.856	
	-276.854279724	1.637353303	HE	0.99971200	148.618	
L511	796.304534481	36.805305429	SIO2	1.56028895	156.741	
	2360.950907095	10.808883416	HE	0.99971200	157.059	
L512	2256.926430541	60.789786196	SIO2	1.56028895	157.684	
	-336.450738373	0.801676910	HE	0.99971200	157.856	
L513	161.617552542	66.152351274	SIO2	1.56028895	125.624	
	-6835.350709889AS	0.744366824	HE	0.99971200	121.362	
L514	2851.162473443	8.000000000	SIO2	1.56028895	118.726	
	173.208226906	18.750820117	HE	0.99971200	97.559	
L515	318.351302869	8.000000000	SIO2	1.56028895	95.703	
	214.643166184	38.151364608	HE	0.99971200	89.760	
L516	-261.549915460	6.000000000	SIO2	1.56028895	88.331	
	119.510683982AS	66.550546342	HE	0.99971200	82.116	
L517	-126.322271364	6.000000000	SIO2	1.56028895	83.464	
	1722.207555551	24.185704173	HE	0.99971200	102.415	
L518	-506.819064828	30.988960270	SIO2	1.56028895	111.113	
	-242.042046428	0.700000000	HE	0.99971200	118.861	
L519	-728.789614455	30.297084361	SIO2	1.56028895	132.704	
	-269.518093553	0.700000000	HE	0.99971200	135.576	
L520	-1024.754284774	27.306923440	SIO2	1.56028895	147.201	
	-361.037355343	0.700000000	HE	0.99971200	149.061	
L521	929.096482269	49.082091976	SIO2	1.56028895	161.109	
	-497.886578908	15.000000000	HE	0.99971200	161.854	
	infinite	-10.000000000	HE	0.99971200	158.597	
L522	352.973470359AS	22.735479730	SIO2	1.56028895	159.957	
	529.864238000	1.119499649	HE	0.99971200	158.688	
L523	422.718681400	57.532074113	SIO2	1.56028895	158.278	
	-733.230538894	37.317449332	HE	0.99971200	156.533	
L524	-261.165349728	15.000000000	SIO2	1.56028895	155.119	
	-292.119447959AS	18.962883498	HE	0.99971200	156.043	
L525	-226.263316842AS	19.009003051	SIO2	1.56028895	155.000	
	-231.163516914	0.700000000	HE	0.99971200	157.710	
L526	245.306778718	23.024380018	SIO2	1.56028895	124.547	
	403.694577141	0.700000000	HE	0.99971200	121.262	
L527	132.188567375	28.647981266	SIO2	1.56028895	104.696	
	199.679919884	0.700019350	HE	0.99971200	101.254	
L528	138.967602414	36.537553325	SIO2	1.56028895	93.617	
	1194.093826692AS	8.108769689	HE	0.99971200	89.148	
L529	infinite	25.923824338	CaF2	1.50143563	82.715	
	infinite	5.000000000	L710	0.99998200	63.301	
L530	infinite	25.000000000	CaF2	1.50143563	52.976	
	infinite	10.000000000	L710	0.99998200	34.253	
L531	infinite	0.000000000			13.603	

L710 = Air at 710 Torr --